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APPLICATION NO.	FII	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,357	0	9/16/2003	Shunpei Yamazaki	12732-167001 9624	
26171	7590	05/17/2006		EXAMINER	
FISH & RICHARDSON P.C.				RAABE, CHRISTOPHER M	
P.O. BOX 10 MINNEAPO		55440-1022		ART UNIT PAPER NUMBER	
	,			2879	-
				DATE MAILED: 05/17/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.		. (
		Applicant(s)	
Office Action Summary	10/662,357 Examiner	YAMAZAKI ET AL.	
	1	Art Unit	
The MAILING DATE of this communication appeared for Reply A SHORTENED STATUTORY	Christopher M. Raabe	2879	
A SUCCESSION OF THE SUCCESSION	pears on the cover sheet with	the correspondence address	s
WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1 If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin - Any reply received by the Office later than three months after the mailin - Extension of CFR 1.704(b). Status 1) Responsive to communication(s) filed on	LY IS SET TO EXPIRE 3 MOIDATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS, cause the application to become ABAN g date of this communication, even if time action is non-final. Ince except for formal matters, ix parte Quayle, 1935 C.D. 11 on from consideration.	NTH(S) OR THIRTY (30) DA TION. To be timely filed From the mailing date of this communic DONED (35 U.S.C. § 133). By filed, may reduce any	AYS,
8) Claim(s) are subject to restriction and/or e	election requirement.	•	
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accept Applicant may not request that any objection to the drawing sheet(s) including the second accept the specific production of the drawing sheet(s) including the second accept the	wing(s) be neld in abeyance. Se	e 37 CFR 1.85(a).	
11) ☐ The oath or declaration is objected to by the Exam Priority under 35 U.S.C. § 119	iner. Note the attached Office	Action or form PTO-152.	I) .
12) Acknowledgment is made of a claim for foreign price a) All b) Some * c) None of: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of application from the International Bureau (Potes * See the attached detailed Office action for a list of the	ive been received ve been received in Applicati documents have been receive	on No ed in this National Stage	
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Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/2/06.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	PTO-413) te tent Application (PTO-152)	

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/2/06. U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

6) Other: ____.

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DETAILED ACTION

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 2, 2006 has been entered.

2. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 1-28 rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. (USPN 2001/0055841) in view of Haskal et al. (USPN 5952778).

With regard to claim 1,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode formed over a substrate, an electroluminescent film formed over the first electrode, and a second electrode formed over the electroluminescent film (paragraph 2, lines 1-3); an inorganic insulating film formed in contact with the second electrode (paragraph 105 and 388 of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the inorganic insulating film wherein a sealing substrate is positioned over the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics formed over an inorganic insulating film (column 3, lines 58-63) and a sealing substrate positioned over the film containing fluoroplastics (column 1, lines 55-61, column 3, lines 31,46-52,60-65, and column 4, lines 55-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics over which a sealing substrate is formed disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 2,

Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

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Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 1, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 3,

Yamazaki et al. disclose a light-emitting apparatus, wherein the inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

With regard to claim 4,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode formed over a substrate, an electroluminescent film formed over the first electrode, and a second electrode formed over the electroluminescent film (paragraph 2, lines 1-3); and an inorganic insulating film formed over the second electrode (paragraph 105, and 388 of fig 8b); and an organic insulating film formed over the inorganic insulating film (paragraphs 133,134 and 1007 of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the organic insulating film nor having a sealing substrate positioned over the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics formed over an insulating film formed over a second electrode of a light emitting apparatus (column 3 lines 58-63) having a

sealing substrate positioned over the film containing fluoroplastics (column 1, lines 55-61; column 3, lines 31,46-52,60-65; and column 4, lines 55-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics over which a sealing substrate is formed disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 5,

Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 4, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 6,

Yamazaki et al. disclose a light-emitting apparatus, wherein the inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

With regard to claim 7,

Yamazaki et al. disclose a light-emitting apparatus, wherein an organic insulating film is formed of any one of acrylic, polyamide, or polyimide (paragraph 134).

With regard to claim 8,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode, an electroluminescent film formed over the first electrode, and a second electrode formed over the electroluminescent film (paragraph 2, lines 1-3); a first inorganic insulating film formed over the second electrode (paragraph 105, and 388 of fig 8b); an organic insulating film formed over the inorganic insulating film (paragraphs 133,134, and 1007 of fig 8b); a second inorganic insulating film formed over the organic insulating film (paragraph 136, and 1008b of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the second inorganic insulating film.

Haskal et al. do disclose a film containing fluoroplastics formed over an insulating film formed over a second electrode of a light emitting apparatus (column 3 lines 58-63).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 9,

Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

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Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 8, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 10,

Yamazaki et al. disclose a light-emitting apparatus, wherein the first inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

Yamazaki et al. do not disclose a second inorganic insulating film of the same type as the first inorganic insulating film.

Yamazaki et al. do disclose, in the disclosure of the first inorganic insulating film (paragraph 105), the functional equivalence of a DLC film and a silicon nitride film, and, in the disclosure of the second inorganic insulating film (paragraph 136), the use of a DLC film.

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the silicon nitride (used in the first inorganic insulating film) into a second inorganic insulating film in order to reduce the types of required materials for manufacture.

With regard to claim 11,

Yamazaki et al. disclose a light-emitting apparatus, wherein the organic insulating film is formed of any one of acrylic, polyamide, or polyimide (paragraph 134).

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With regard to claim 12,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode connecting electrically to a TFT formed over a substrate via an insulating film (paragraph 11, and 382,383 of fig 6b), an electroluminescent film formed over the first electrode (385 of fig 6b), and a second electrode formed over the electroluminescent film (386 of fig 6b); an inorganic insulating film formed over the second electrode (paragraph 105, and 388 of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the inorganic insulating film wherein a sealing substrate is positioned over the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics formed over an inorganic insulating film (column 3, lines 58-63) and a sealing substrate positioned over the film containing fluoroplastics (column 1, lines 55-61, column 3, lines 31,46-52,60-65, and column 4, lines 55-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics over which a sealing substrate is formed disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 13,

Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer,

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polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 12, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 14,

Yamazaki et al. disclose a light-emitting apparatus, wherein the inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

With regard to claim 15,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode connecting electrically to a TFT formed over a substrate via an insulating film (paragraph 11, and 382,383 of fig 6b), an electroluminescent film formed over the first electrode (385 of fig 6b), and a second electrode formed over the electroluminescent film (386 of fig 6b); an inorganic insulating film formed over the second electrode (paragraph 105, and 388 of fig 8b); an organic insulating film formed over the inorganic insulating film (paragraphs 133,134, and 1007 of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the organic insulating film nor having a sealing substrate positioned over the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics formed over an insulating film formed over a second electrode of a light emitting apparatus (column 3 lines 58-63) having a

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sealing substrate positioned over the film containing fluoroplastics (column 1, lines 55-61; column 3, lines 31,46-52,60-65; and column 4, lines 55-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics over which a sealing substrate is formed disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 16,

Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 15, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 17,

Yamazaki et al. disclose a light-emitting apparatus, wherein the inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

With regard to claim 18,

formed of any one of acrylic, polyamide, or polyimide (paragraph 134).

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With regard to claim 19,

Yamazaki et al. disclose a light-emitting apparatus comprising: a light-emitting device including a first electrode connecting electrically to a TFT formed over a substrate via an insulating film (paragraph 11, and 382,383 of fig 6b), an electroluminescent film formed over the first electrode (385 of fig 6b), and a second electrode formed over the electroluminescent film (386 of fig 6b); a first inorganic insulating film formed over the second electrode (paragraph 105, and 388 of fig 8b); an organic insulating film formed over the first inorganic insulating film (paragraphs 133,134, and 1007 of fig 8b); a second inorganic insulating film formed over the organic insulating film (paragraph 136, and 1008b of fig 8b).

Yamazaki et al. do not disclose a film containing fluoroplastics formed over the organic insulating film nor having a sealing substrate positioned over the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics formed over an insulating film formed over a second electrode of a light emitting apparatus (column 3 lines 58-63) having a sealing substrate positioned over the film containing fluoroplastics (column 1, lines 55-61; column 3, lines 31,46-52,60-65; and column 4, lines 55-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics over which a sealing substrate is formed disclosed by Haskal et al. into the light-emitting apparatus of Yamazaki et al. in order to provide improved protection for the light emitting portion of the apparatus.

With regard to claim 20,

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Yamazaki et al. disclose the light-emitting apparatus.

Yamazaki et al. do not disclose the film containing fluoroplastics.

Haskal et al. do disclose a film containing fluoroplastics to be one type of polymer selected from polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride (column 3, lines 58-63).

Utilizing the reasoning in the rejection of claim 19, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the film containing fluoroplastics of Haskal et al. into the apparatus of Yamazaki et al.

With regard to claim 21,

Yamazaki et al. disclose a light-emitting apparatus, wherein the first inorganic insulating film is one type selected from silicon nitride, silicon oxynitride, aluminum nitride, and aluminum oxynitride (paragraph 105).

Yamazaki et al. do not disclose a second inorganic insulating film of the same type as the first inorganic insulating film.

Yamazaki et al. do disclose, in the disclosure of the first inorganic insulating film (paragraph 105), the functional equivalence of a DLC film and a silicon nitride film, and, in the disclosure of the second inorganic insulating film (paragraph 136), the use of a DLC film.

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the silicon nitride (used in the first inorganic insulating film) into a second inorganic insulating film in order to reduce the types of required materials for manufacture.

With regard to claim 22,

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Yamazaki et al. disclose a light-emitting apparatus, wherein the organic insulating film is formed of any one of acrylic, polyamide, or polyimide (paragraph 134).

With regard to claims 23-28,

Yamazaki et al. disclose the light emitting apparatus.

Yamazaki et al. do not disclose a sealing substrate positioned over the film containing fluoroplastics.

Haskal et al. do disclose a light-emitting device being sealed by a substrate and a sealing substrate (column 1, lines 55-61; column 3, lines 31,46-52,60-65; and column 4, lines 55-65).

Utilizing the reasoning in the rejections of claims 1,4,8,12,15,19, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the sealing substrate of Haskal et al. into the apparatus of Yamazaki et al. in order to increase the impact resistance of the device

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Raabe whose telephone number is 571-272-8434. The examiner can normally be reached on m-f 7am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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